Claims

- [c1] 1. A reflective liquid crystal display, comprising: a liquid crystal display panel having a plurality of pixels, wherein each pixel has a plurality of color blocks; and a regional light source over the liquid crystal display panel to radiate directly thereon. [c2] 2. The reflective liquid crystal display according to Claim 1, wherein the regional light source comprises: a substrate; and a light-emitting structure on one side of the substrate. [c3] 3. The reflective liquid crystal display according to Claim 2, wherein the lightemitting structure is disposed on the side of the liquid crystal display panel facing the liquid crystal display panel. [c4] 4. The reflective liquid crystal display according to Claim 2, wherein the lightemitting structure is disposed on the side of the liquid crystal display panel distal to the liquid crystal display panel. [c5] 5. The reflective liquid crystal display according to Claim 2, wherein the lightemitting structure includes an organic light emitting diode. [c6] 6. The reflective liquid crystal display according to Claim 5, wherein the light
 - emitting structure further comprises: a cathode;
 - an anode, under the cathode at the side facing the liquid crystal display panel; and
 - a luminescent layer, between the cathode and the anode.
- [c7] 7. The reflective liquid crystal display according to Claim 2, wherein the light-emitting structure includes a plurality of spots scattered over each of the color blocks.
- [c8] 8. The reflective liquid crystal display according to Claim 7, wherein the light-emitting structure is disposed across at least two of the color blocks.

- [c9] 9. The reflective liquid crystal display according to Claim 1, wherein the regional light source is located at an edge of each of the color blocks.
- [c10] 10. The reflective liquid crystal display according to Claim 1, wherein the liquid crystal display panel comprises:
 a color filter;
 a polarizer on the color filter;
 a thin-film transistor substrate without direct contact to the color filter;
 a reflection layer, formed on the thin-film transistor substrate; and
 a liquid crystal layer, filled between the color filter and the thin-film transistor
- [c11] 11. The reflective liquid crystal display according to Claim 10, wherein the regional light source is directly mounted to the polarizer.

substrate.

- [c12] 12. A reflective liquid crystal display, comprising:

 a liquid crystal display panel, having a plurality of pixels, and each of the pixels having a plurality of color blocks; and

 an organic light emitting diode, disposed over the liquid crystal display panel to radiate thereon directly.
- [c13] 13. The reflective liquid crystal display according to Claim 12, wherein the light emitting diode comprises:

 a substrate; and
 a light-emitting diode on one side of the substrate.
- [c14] 14. The reflective liquid crystal display according to Claim 13, wherein the light-emitting diode is disposed on the side of the liquid crystal display panel facing the liquid crystal display panel.
- [c15] 15. The reflective liquid crystal display according to Claim 13, wherein the light-emitting diode is disposed on the side of the liquid crystal display panel distal to the liquid crystal display panel.
- [c16] 16. The reflective liquid crystal display according to Claim 13, wherein the light-emitting diode further comprises:

a cathode;

an anode, under the cathode at the side facing the liquid crystal display panel; and

a luminescent layer, between the cathode and the anode.

- [c17] 17. The reflective liquid crystal display according to Claim 13, wherein the organic light-emitting diode includes a plurality of spots scattered over each of the color blocks.
- [c18] 18. The reflective liquid crystal display according to Claim 17, wherein the organic light-emitting diode is disposed across at least two of the color blocks.
- [c19] 19. The reflective liquid crystal display according to Claim 12, wherein the organic light-emitting diode is located at an edge of each of the color blocks.
- [c20] 20. The reflective liquid crystal display according to Claim 12, wherein the liquid crystal display panel comprises:
 a color filter;
 a polarizer on the color filter;
 - a thin-film transistor substrate without direct contact to the color filter; a reflection layer, formed on the thin-film transistor substrate; and a liquid crystal layer, filled between the color filter and the thin-film transistor substrate.
- [c21] 21. The reflective liquid crystal display according to Claim 20, wherein the organic light-emitting diode is directly mounted to the polarizer.